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Technical Report

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MECHANIZATION STUDY
OF THE ARMY STUDY
DOCUMENTATION AND
INFORMATION RETRIEVAL SYSTEM,
U. S. ARMY LIBRARY, WASHINGTON, D. C.

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Defense Documentation Center
Cameron Station, Virginia

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Bethesda, Maryland 20014

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September 1966

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ABSTRACT

The objectives of the Army Study Documentation and Information Retrieval System (ASDIRS) are to provide a central library of Army studies readily accessible in the Pentagon and a published periodic book catalog of Army studies. ASDIRS consists of the authors, storers, and users of the studies. At the present time, a bibliographic, quarterly catalog of Army studies and a permuted descriptor/title index are provided from input to the system. The catalog of Army studies is produced using an IBM 1401 computer, and the permuted descriptor/title index to the catalog is produced using an IBM 7090 computer. The central library of Army studies will provide a reference card file and the Termatrix retrieval system for easy subject access to the collection. The bibliographic catalog is distributed Army-wide and has been favorably received.

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I. SUMMARY

The Army Study Documentation and Information Retrieval System (ASDIRS), located in the Army Library, Pentagon, became operational in April 1964. The objectives* of ASDIRS are to provide a central library of Army studies readily accessible in the Pentagon and a published periodic book catalog of Army studies.

The central library will provide the following: (1) a bibliographic reference card catalog, (2) a search mechanism that will enable a researcher to identify quickly those studies which have a bearing on a specific subject area, (3) limited microfilm reader/printer service (projected), (4) access to studies, and (5) limited special bibliography service.

The periodic catalog of Army studies will provide the following bibliographic information on each study completed or under way: (1) study categories and subcategories; (2) initiating office, study sponsor, and study agency; (3) dates: starting, completion, and availability; (4) title, abstract, and document number; (5) time frame; (6) study

* Army Regulation 1-28, 5 October 1964

descriptors; and (7) what the study contributes to.

Procedures that have been outlined so that the objectives of ASDIRS will be met are as follows: (1) to index, catalog, abstract, store, and announce availability of Army studies; (2) to provide bibliographic service, central literature searching, and reading facilities; (3) to disseminate periodically a catalog of Army studies to include descriptions of studies completed or under way; and (4) to develop documentation standards for Army studies.

The central library of Army studies provides a reference card file (see Figure 1 for sample) and the Termatrix retrieval system for easy subject access to the collection. A quarterly catalog of Army studies is produced using the Army Information and Data Systems Command (AIDS) IBM 1401 computer. The permuted descriptor/title index to the catalog is produced on the Army's Strategic Tactics and Analysis Group's IBM 7090 computer.

The collection (as of January 1966) contains some 450 completed studies (up to and including Secret items) and 850 abstract cards on assigned projects. The collection is growing at the rate of 100 per month. The studies are not scientific or technically oriented but are significant in the areas of plans, policies, strategy, doctrine, materiel, and personnel in the Army. A staff of three services this collection.

ASDIRS NO.:

Study Category: Development Studies-Firepower-Weapons (341)

Initiated By: Secretary of the Army

Starting Date: June 1963

Study Sponsor: ACSFOR

Completion Date: November 1963

Study Agency: Combat Developments Command, Ft. Belvoir, Va.

Availability Date: February 1964

Reference No:

Title: Army Requirements for Direct Fire Weapons Systems - ARDFIRE (U)

Abstract: Cost-effectiveness analysis of some 125 direct fire weapons systems, develops optimum family and mixes for defeat of mechanized forces. 14 division-level tactical situations. Individual weapons examined in a dual situation, least-cost sets of weapons developed, appropriate role played in two computer simulations to yield a "best set," which is then evaluated against stated requirements. 36 specific conclusions include a preferred family, an alternate family, and R&D actions deemed necessary to correct apparent shortcomings. Annexes include examination of threat in Europe and Southeast Asia, expected enemy and friendly weapons, equipment, organization and doctrine, target acquisition, and a historical survey. (Published in 7 vols., plus one Supplemental Report (unnumbered volume) which has special distribution)

Time Frame: 1965-1970

Study Descriptors: Antitank weapons, SHILLELAGH, Requirements, Aircraft, Simulation, Europe, Cost effectiveness, Effectiveness measures, Weapons, Physical characteristics, Evaluation, Computer applications, Research and Development, Target acquisition, Mechanized forces, Southeast Asia.

Classification: SECRET AND TOP SECRET

Contributes to: Weapon system development, QMR, RODAC doctrine and organization

FIGURE 1

Format

Bibliographic Data
(with sample entries)

The total 1,300 items are used by project planners and managers and other qualified DoD personnel and DoD contractors. Copies of the abstract cards will be provided, but hard copies of the studies are neither loaned, reproduced, nor distributed from ASDIRS. Requests are usually received by telephone or personal visit. Users are permitted to perform their own searches with the Termatrix equipment.

The combined photographic and semiautomated methods have proven quite economical. Users and operators of the ASDIRS and the bibliographic catalog are satisfied with the system and have encountered no major problems.

II. MECHANIZATION

ASDIRS consists of the authors, the storers, and the users of the studies. (See Figure 2 for detailed operation of ASDIRS.) From input to the system, a catalog of Army studies and permuted descriptor/title index are provided. Input procedures and format of the outputs are discussed below.

1. DESCRIPTION OF PROCESSES

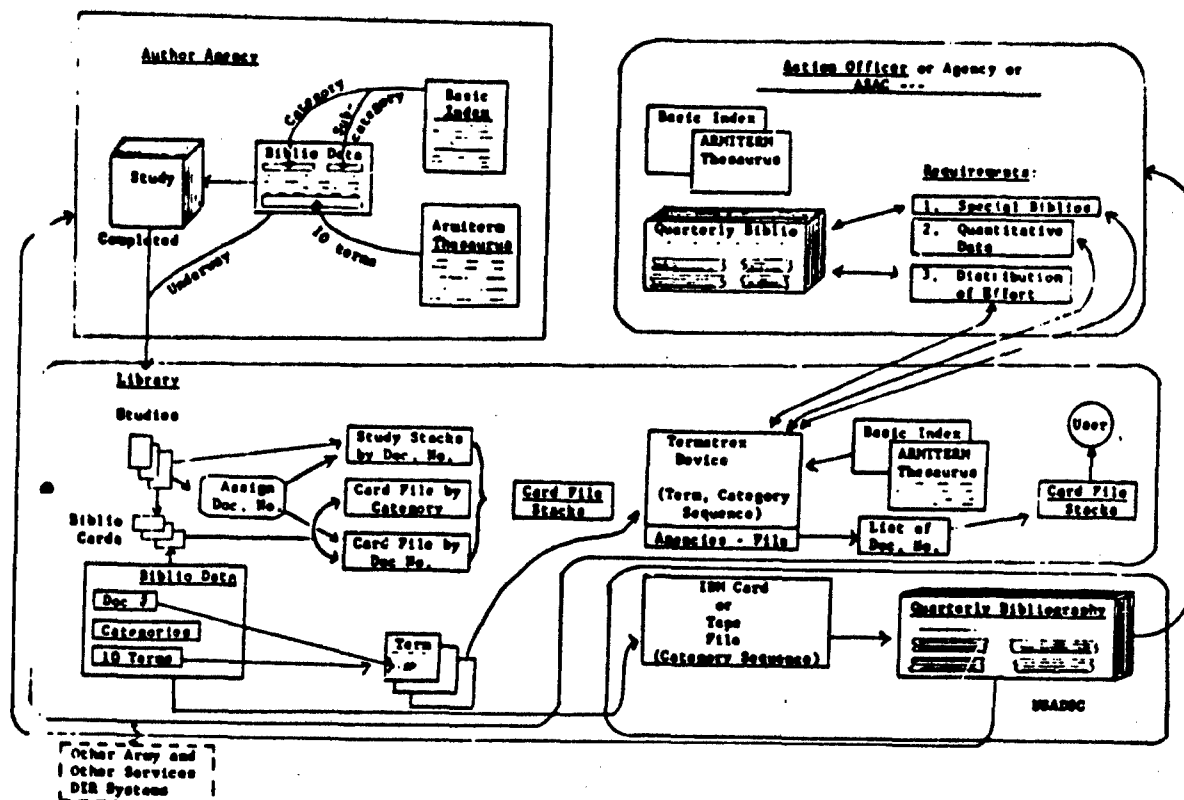
(1) Input Procedures

1. The author prepares a 10-1/2 x 8 sheet for each new study assigned, and another sheet at the completion of the study.

2. Individual entries in the Bibliographic Data format (see Figure 1) will be made as follows:

(1) ASDIRS number. Leave blank; Army Library will assign a control number.

(2) Study category-subcategory. Record the study category and subcategory (or subcategories) that best apply. Choose from the numbered categories and subcategories on the ARMITERM Basic Index (Appendix A). (Example: Development studies-Firepower-Weapons).



[AGAL]

By Order of the Secretary of the Army:

Official:

J. C. LAMBERT,
Major General, United States Army,
The Adjutant General.

HAROLD K. JOHNSON,
General, United States Army,
Chief of Staff.

Distribution:

Active Army: To be distributed in accordance with DA Form 12-9 requirements for Administration—D.

NG: None.

USAR: None.

FIGURE 2
Detailed Operation of the ASDIRS

(3) Study category-subcategory number. Record the pertinent study category-subcategory number(s) next to the chosen study category-subcategory. (Example: Development studies-Firepower-Weapons (341)).

(4) Initiated by. Record agency, office, or title of individual who directed that this study be conducted.

(5) Study sponsor. Insert organizational title of Army staff element or field command with responsibility to monitor the study.

(6) Study agency. Insert agency actually conducting the study.

(7) Starting date. Record month and year the study was or is to be started.

(8) Completion date. Record month and year the study was or is to be completed.

(9) Availability date. Insert month and year the study was or is expected to be available to office designated in "Initiated by."

(10) Reference number. Add identifying number that the study agency assigned to the study (if applicable). (Example: RAC-TP-107.)

(11) Title

(12) Abstract. In 100 words or less, outline planned or actual scope and method, key results, and purpose. Prepare in such a manner as to give the reader of a bibliography containing the study sufficient information to enable him

to decide whether he needs the study. The abstract will be unclassified.

(13) Time frame. Cite the "period" of the study--i.e., current, 1964-67, 1970-80, etc.

(14) Study descriptors. Record 10 terms from the Thesaurus of ARMITERMS (Appendix B) that best describe the content of the study. The choice of terms will determine the efficiency of future retrieval, once the study is incorporated in ASDIRS. Hence, the Guidelines for Use of the Thesaurus of ARMITERMS (see Appendix B) should be followed carefully.

(15) Classification. Insert security classification of the study. Include indication of special security required.

(16) Contributes to. Record up to five "actions" that this study is intended to contribute to: i.e., paragraph in Combat Developments Objective Guide (CDOG), Program Change Proposal (PCP), other study, Army Plan, etc.

When the study is completed, the author need only to update, correct, or add to this bibliographic data and forward the revised form with a copy of the completed study.

3. The 10-1/2 x 8 updated bibliographic data sheet is forwarded to the Army Library, TAGO (ASDIRS).
4. The Library assigns a study number.
5. Photo-offset copies of the 10-1/2 x 8 bibliographic data sheet are made, reduced onto 8 x 5 cards (see Figure 1).

6. The 8 x 5 cards are filed in order by the study number, broad subject categories, and titles.
7. New descriptor terms of the author are reviewed for possible incorporation in the Thesaurus, which is under continuous review.

At present there are approximately 600 terms in the thesaurus, with 10-15 terms typically assigned to each document. Terms have been added to the original ARMITERM Thesaurus (Appendix B) only after careful consideration. Terms which the authors use and which are not already included in the ARMITERM Thesaurus are underlined for special attention and review by the Librarian. Thesaurus development will include the addition of term definitions as used by ASDIRS. Due to the nature of the studies included in the collection, many terms must be defined by their use in this system rather than by their general usage. (Examples are forces, movement, satellites.)

8. Using the bibliographic data cards, Termatrix descriptor cards are prepared for use in retrieval of the study.
9. Some of the information on the 8 x 5 bibliographic

data cards is coded and transferred to the CSAIDS-C Form 53 (keypunch form--see Figure 3).

10. The Form 53 is forwarded to AIDS for keypunching and preparation of the computer printout of the index to the quarterly bibliographic catalog.

(2) Output

A Confidential bibliographic catalog is published quarterly in three parts. Part III is printed from the same negatives used in reducing the 10-1/2 x 8 sheets to an 8 x 5 card and is arranged by document (i. e., study) number (two items to a page).

Part I is an index by broad category, with classification and category number.

Part II is a modified (permuted descriptor/title) KWIC index (more subject than title approach). This section provides for further depth indexing than Part I.

The catalog is cumulated each quarter, with a final annual cumulation. It is hoped that a five-year cumulation will be possible.

The catalog is distributed Army-wide and has been favorably received.

ARMY LIBRARY

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CLASSIC FORM 33 1 OCT 48

FIGURE 3
Keypunch Form

III. EQUIPMENT AND COSTS

Termatrex System (punch, reader, and Termatrex cards and card holders)

Approximately \$5, 000 for entire system (owned by ASDIRS).

IBM Sorter 084

Purchased by AIDS for \$10, 600. Used by ASDIRS quarterly for file updating, which involves 1 hour per quarter (20 minutes per month).

IBM Punch 026

Purchased by AIDS for \$4, 050. 50. Used quarterly by ASDIRS for file updating, which involves 2 hours per quarter (40 minutes per month).

IBM Verifier Model 056

Purchased by AIDS for \$2, 888. 50. Used quarterly by ASDIRS for file updating, which takes 2 hours per quarter (40 minutes per month).

IBM Collator Model 188

Purchased by AIDS for \$32, 860. Used quarterly by ASDIRS for file updating, which takes 30 minutes per quarter (10 minutes per month).

IBM 1401 Computer

Purchased by AIDS for \$131,100. Used quarterly by ASDIRS for 75 minutes per quarter (25 minutes per month). File updating takes 15 minutes per quarter (5 minutes per month); file printing takes 1 hour per quarter (20 minutes per month).

IBM 7090 Computer (for permuted descriptor/title index)

Purchased by Department of the Army for \$3 million--located at Strategic Tactics and Analysis Group (STAG). Used quarterly by ASDIRS for 21 minutes per quarter (7 minutes per month). File updating takes 15 minutes per quarter (5 minutes per month); file formatting takes 6 minutes per quarter (2 minutes per month). Printing is done on the AIDS 1401.

For additional cost factors, see Appendix C.

B I B L I O G R A P H Y

Army Study Documentation and Information Retrieval System (ASDIRS),
U.S. Army Regulation 1-28, dated 5 October 1964.

ARMITERM Basic Index

| | |
|-----|--|
| 000 | <i>Army Studies</i> |
| 100 | <i>General</i> |
| 200 | <i>Strategic Studies</i> |
| 210 | <i>General</i> |
| 220 | <i>Strategic Intelligence</i> |
| 221 | <i>General</i> |
| 222 | <i>Political</i> |
| 223 | <i>Economic</i> |
| 224 | <i>Sociological</i> |
| 225 | <i>Geographical</i> |
| 226 | <i>Scientific and Technological</i> |
| 227 | <i>Military</i> |
| 230 | <i>Operational</i> |
| 231 | <i>General</i> |
| 232 | <i>Psychological</i> |
| 233 | <i>Military Assistance</i> |
| 234 | <i>Counterinsurgency</i> |
| 235 | <i>Defense</i> |
| 236 | <i>Offense</i> |
| 300 | <i>Development Studies</i> |
| 310 | <i>General</i> |
| 320 | <i>Intelligence</i> |
| 330 | <i>Force Structure</i> |
| 331 | <i>General</i> |
| 332 | <i>Organizational</i> |
| 333 | <i>Operational</i> |
| 340 | <i>Firepower</i> |
| 341 | <i>Weapons</i> |
| 342 | <i>Ammunition</i> |
| 343 | <i>Air Defense</i> |
| 344 | <i>Target Acquisition</i> |
| 350 | <i>Mobility</i> |
| 351 | <i>Air</i> |
| 352 | <i>Surface</i> |
| 360 | <i>Command, Control and Communications</i> |
| 370 | <i>Personnel</i> |
| 380 | <i>Training</i> |
| 390 | <i>Logistics</i> |
| 400 | <i>Management and Administration</i> |
| 500 | <i>Methodological Studies</i> |

Basic Index for Army Studies Definitions

Operational: Studies which address the total spectrum of possible types of military action, or operations, to include: psychological warfare, military assistance, counterinsurgency, passive and active defense, and offense. Those studies which deal about equally with two or more alternative types of military operations are categorized as *general*. Those which primarily address one of the specified types of operations are categorized under one of the following subcategories:

General: Studies which develop an entire spectrum of expected operational scenarios.

Psychological: Studies of the possible alternative useful means of employing psychological means as a "weapon," to include appeals, symbols, broadcast and visual methods.

Military Assistance: Studies of the use of military assistance (service, civic action, equipment, training, education) as a means of maintaining an acceptable military capability balance within and between nations, countries, blocs and alliances.

Counterinsurgency: Studies of the use of means to counter-revolution, insurgency, underground movements, guerrilla activity, and other paramilitary actions short of a state of declared warfare.

Defense: Studies of the strategic defensive measures available and necessary to meet open attack of the United States and its allies by a potential enemy.

Offense: Studies of the strategic offensive measures available and necessary to counter open attack of the United States and its allies by a potential enemy.

Development Studies: Those studies which analyze the relatively specific alternative ways and means of achieving victory in combat. As a body, these studies include separate and collective analyses of the doctrine, organizations, and equipment to be used on the battlefield and of the attendant resources required to achieve necessary and sufficient effectiveness. Subject areas examined include intelligence, force structure, firepower, mobility, command control and communications, personnel, training, and logistics. (Sometimes called systems analysis, cost-effectiveness study, operations research study, operational analysis, operational evaluation, combat development study.)

General: Those development studies which deal about equally with two or more of the categories described below are categorized as DS, General.

Intelligence: Those DS which primarily address combat surveillance and target acquisition, combat intelligence, and security, and the necessary doctrine, organization and equipment alternatives necessary and sufficient to approaching optimum expected performance.

Force Structure: Those DS which primarily address the organizational and operational alternatives necessary and sufficient to the fielding of optimally tailored units of combat force. These studies primarily address size, shape, manning, equipment, command and support requirements (personnel, training, logistics) of separate battalion, brigade, regiment, division, corps, and army units and aggregations thereof.

General: Force structure studies which address, about equally, organizational structure and operational employment.

Organizational: Force structure studies which primarily address alternative organizational structures.

Thesaurus of ARMITERMS

1. *General.* The attached list of terms, commonly found in Army Studies, is designed to be a predetermined source of words to be included under Study Descriptors section of Bibliographic Data and subsequently to be used as a search and retrieval mechanism. The list, in its present form is considered adequate; however, provisions for the introduction of new ARMITERMS have been made as discussed below. While the Thesaurus, in its present form is nothing more than a list, a more refined version, to include relationships, synonyms, etc., will be developed as experience is gained with ASDIRS and if warranted.

2. *Guidelines for use of the Thesaurus of ARMITERMS.* a. Format for Bibliographic Data (appendix II) calls for recording 10 terms from the Thesaurus of ARMITERMS under the entry: Study of Descriptors. The following technique will be *normally* employed:

- (1) Pick *six* terms from the Thesaurus, giving priority to the terms found under the appropriate category/subcategory. Arrange these in order of importance.
- (2) Pick *two* terms from the Methodological Studies category.
- (3) Pick *two* terms from the Data Retrieval category.

b. *Options.*

- (1) New terms: If a term which the author/agency feels is *highly descriptive* of the study is not found in the Thesaurus, include this term *in addition to* the ten chosen from the Thesaurus, and *underline* it. (NOTE: Terms may be combined, if not already done so in this Basic Index, when it is felt that a *single* concept or idea can best be indicated by so doing, e.g., rather than use "reserve" and "unit" if the idea entertained is "reserve unit," use the already combined term found in this Thesaurus of ARMITERMS "reserve units," or again if the idea entertained is "balance of power" and the only word found in the Thesaurus is "balance," submit the new suggested term, "*balance of power*"; similarly "area handbook," "area study," "foreign policy," "arms control," "economic environment," "exterior ballistics," "fixed round," "zone of interior," etc.).
- (2) Methodological studies: Since this class of study emphasizes analytical technique rather than substantive evaluation, choose terms as follows:

- (a) Pick *six* terms from the Methodological Studies category.
- (b) Pick *four* terms from elsewhere in the Thesaurus.

c. Studies will be "filed" in the ASDIRS search and retrieval device by ARMITERM. Hence, when a list of studies addressing a given subject is desired, choose "search" terms from the latest edition of the Thesaurus of ARMITERMS when composing search requests.

Development Studies

Development Studies, General

(All terms listed under Intelligence, Force Structure, Firepower, Mobility, Command Control and Communications, Personnel, Training, and Logistics apply.)

DS, Intelligence

aerial
aircraft
camera
COMINT
combat
communication
concepts
counterintelligence
countersurveillance
detection
doctrine
DroneMQM-58A
ECCM

ECM
electronics
geodesy
ground
identification
IFFMarkXXX
imagery
industrial
information
mapping
material
mobility
MOHAWK

nightvision
operations
organizations
photograph
safeguarding information
security
sensors
surveillance
systems
target acquisition
technical
TIIF
weather

DS, Force Structure

administrative
administration
air assault
airborne
air defense
Alaska
amphibious
armor
armored cavalry regiment
army aviation
Brigades
CBR
combat
combatant
combined-arms
command
communications-electronics
concepts
counterinsurgency
current
division
doctrine

engineer
Europe
field artillery
force basis
forces
future
general
infantry
Korea
land warfare
logistic
mechanized
military police
military sciences
missile
mobility
nuclear
operating
operational concepts
operational parts
operations
organizations

Pacific
plans
psychological
remote area
requirements
reserve units
ROAD
roles and missions
round-out
separate battalions
service
SouCom
Special Forces
special warfare
STRICOM
structures
support
temperate zone
unconventional
underdeveloped

COST FACTORS

The following figures have been established by the Management Control Office for use in estimating the cost of developing and maintaining future systems efforts within the Command. A figure of 8 percent has been added to the average civilian salary to cover the contribution of USAIDSCOM to FICA. Retirement, etc. No effort has been made to evaluate or include overhead costs.

COSTS:

1. Systems Analyst--\$900 per man-month or \$5.60 per man-hour.
2. Programmer--\$750 per man-month or \$4.70 per man-hour.
3. Production Control Office--\$680 per man-month or \$4.25 per man-hour.
4. Operations--Included \$3.00 per machine hour for operator.

| | |
|---------------|-------------------------|
| 7080 (160K) | \$330 per machine hour |
| 1460 (12K) | \$ 65 per machine hour |
| 1401 C5 (12K) | \$ 55 per machine hour |
| 1401 C3 (4K) | \$ 35 per machine hour |
| 1401 G3 (4K) | \$ 20 per machine hour. |
5. Key punch--\$3 per hour for machine and operator.
6. EAM--\$6 per hour for machine and operator.
7. Reports Production Branch--\$3.25 per man-hour.

KEYPUNCH TIMING:

1. Good Document--6,000 keystrokes per hour.
2. Poor Document--5,000 keystrokes per hour.

| DOCUMENT CONTROL DATA - R&D | | |
|--|---|------------------------------|
| <small>(Security classification of title, body of abstract and indexing annotation must be entered when the report is processed)</small> | | |
| 1. ORIGINATING ACTIVITY (If appropriate, include author) BOOZ · ALLEN APPLIED RESEARCH, INC. Unclassified 4733 Bethesda Avenue Bethesda, Maryland 20014 | | |
| 3. REPORT TITLE Mechanization Study of the Army Study Documentation and Information Retrieval System, U. S. Army Library, Washington, D. C. | | |
| 4. DESCRIPTIVE NOTES (Type of report and inclusive dates) Final Report of on-site survey | | |
| 5. AUTHOR(S) (Last name, first name, initial) G. A. Kershaw, D. Crowder, J. E. Davis, E. G. Loges, E. Merendini, S. M. Thomas | | |
| 6. REPORT DATE September, 1966 | 7A. TOTAL NO. OF PAGES 29 | 7B. NO. OF PAGES 1 |
| 8A. CONTRACT OR GRANT NO. DSA-7-15489 | 9A. ORIGINATOR'S REPORT NUMBER(S) 914-1-30 | |
| A. PROJECT NO. | 9B. OTHER REPORT NUMBERS (Any other numbers that may be assigned this report) AD 640 125 | |
| 10. AVAILABILITY LIMITATION NOTES Distribution of this Document is unlimited | | |
| 11. SUPPLEMENTARY NOTES None | 12. SPONSORING MILITARY ACTIVITY Defense Supply Agency Defense Documentation Center Cameron Station, Virginia | |
| 13. ABSTRACT The objectives of the Army Study Documentation and Information Retrieval System(ASDIRS) are to provide a central library of Army studies readily accessible in the Pentagon. At the present time, a bibliographic quarterly catalog of Army studies and a permuted descriptor/title index are provided. The catalog of Army studies is produced using an IBM 1401 computer, and the permuted descriptor title index to the catalog is produced using an IBM 7090 computer. The central library of Army studies will provide a reference card file and the Termatrix retrieval system for easy subject access to the collection. The bibliographic catalog is distributed Army-wide and has been favorably received. | | |

